Order-No.: DD+DIS096.99E

1T07ML1

1 Piece TO7ML MA1

May 99

ADC COMPACT

Type 5145

Modification Instructions

Please file this document in section 10
of your Technical Documentation ADC COMPACT

Upgrade from DIPS 1.0.03 ⇒ VIPS.1.0.09
and
Upgrade from VIPS.1.0.05 ⇒ VIPS.1.0.09

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printed in Germany

1 General Information

1.1. Software Prerequisites

ADC Compact Digitizer:	≥ COP_1112
	(recommended: COP_1215, Order Nr.: CM+9.5145.1050.2)
PRID (Preview & Identification SW):	≥ PRID1.1.07

1.2. Main Changes in VIPS.1.0.09*

- “ADCC Full leg / spine SW” released.
- “ADCC Auto QC SW ” released.
- ADCC Test Phantom set will be available from July 1999 on.
- Holder for full leg / full spine will be available from September 1999 on.
- “AGFA DICOM Bridge (ADB) SW” included now. This software can be used to create study folders when the ADC Compact system is connected to a 3rd party PACS system. A separate document will follow to describe the configuration of this software package.
- The Processing Station does not get slow anymore when image storage gets full or more than 9GB of image storage is attached.
- The MIMOSA User Interface stability has been increased significantly by increasing the “swap” space, the shared memory, etc..
- New way of drawing annotations increases their visibility in noisy images.
- Date format in the MIMOSA User Interface is displayed according to the language setting.
- Patient names in patient list are sorted alphabetically now no matter if lower case, upper case or umlaute are used.

* For further details see points 3, 4, 5, 6, and 7 of this document.

1.3. Hardware Prerequisites

The experience has shown that 128 MB RAM is the absolute minimum for the Processing Station. However, for a good performance (UI speed, UI stability) 192 MB RAM memory is recommended. The Processing Stations coming from AGFA are equipped with 256MB RAM. This guarantees that the Processing Stations are working well with SW-Options with high RAM utilization (e.g. ADCC Full leg / spine SW) as well.
The system is only tested with 27 GB hard disk space for images. AGFA does not guarantee a smooth working if more hard disk space for images is used.
As the swap space has been increased at least a 2 GB HD is needed to store the Operating System and the Application plus approximately 180 images.

1.4. Released Options

So far the following options have been released:

OPTION	Released	New in VIPS1009/PRID1107
Interactive processing SW	Yes	No
ADCC Autorouting SW	Yes	No
ADCC Uro Tomo SW	Yes	No
ADCC Pediatric SW	No	-
ADCC Dental SW	No	-
ADCC Full leg / spine SW	Yes	Yes
ADCC Smart Print SW*	No	-
ADCC Annotation SW	Yes	No
ADCC Black Border SW	Yes	No
ADCC Dose Monitoring SW	Yes	No
ADCC Auto QC SW	Yes	Yes
ADCC Dicom Store Connection SW	Yes	No
ADCC Softcopy Toolkit SW	Yes	No
PS5000 upgrade to ADCC	No	No
ADCC PRID on UNIX SW	No	No

- The former options “ADCC Overview Printing SW” and “ADCC Slide Printing SW” will be replaced by one Software package ➔ “ADCC Smart Print SW”

1.5. Release Environment

These versions on the hardcopy devices and the IMPAX Stations (and subsequent releases respectively) guarantee that all functions on the Processing Station are supported properly. Other combinations have not been tested and may result in restrictions in functionality.

LR5200	LTP01901
LR5200 Controller	AOS32946 /C CAD32946 /C ECU32947 /C
DICOM	DCM2.3.4/C
IMPAX	R3.5_v.2.4.0/C

1.6. Performance - Image Input Rate

A Processing Station can handle an input of 140 images scanned with standard resolution. This means that one Processing Station is able to handle two ADC Compact Digitizers at full load under the following conditions:

- The images are standard resolution.
- There are not more than 27GB memory space for images hooked to the Processing Station.
- Only the “Online Hardcopy” output is used.

It is also possible to connect maximum three ADC Compact Digitizers to one Processing Station. However, this reduces the possible workload on each digitizer accordingly. It is not recommended to connect more than three Digitizers to one Processing Station.

1.7. Required Time for the Upgrade

The upgrade itself takes max. 90 minutes (depends strongly on the speed of the CD ROM drive). The upgrade can be done with or without saving and restoring the images from the System Disk. It takes about 50 minutes / 100 images to save them to and restore them from DAT-tape (calculated with an average image size of 5.9MB).

Example for a 2.1GB system disk:
90 min for mere upgrade + 100min for 200 images = 190min = 3hours 10min

Example for a 4.2GB system disk:
90 min for mere upgrade + 260 min for 520 images = 330min = 5hours 30min

Reduce the upgrade time as far as possible. Remove all the images (also OFLS) the customer does not need any more on the Processing Station.

1.8. Order No.: EB+4406.0670

Scope of delivery Software Kit VIPS.1.0.09

- 1 CD ROM: MIMOSA VIPS1.0.09
- 1 Floppy disk Upgrade support floppy
- 1 Floppy disk Language disk LNG1.0.05 for the (V)DIPS Software ≥ DIPS1.0.03
- 1 Documentation Upgrade procedure
- 1 Floppy disk Empty disk, necessary for the upgrade procedure
- 2 DAT-tapes Necessary for the backup of the system disk

1.9. Useful Accessories

- Cleaning tape
- DAT-tape Necessary if “Offline” images have to be saved.

2 Upgrade

2.1. Preparing Actions

Note: Steps 1 – 4 are only necessary if the images on the system disk are needed again after the upgrade.

1) Insert cleaning tape into DAT-tape drive and wait until it is ejected again.

2) As the backup of the images can take very long (approx. 25min/100images) remove no more needed images from the Processing Station

3) Check if the DAT-tape drive is accessible.
   - Switch on DAT-tape drive
   - go to **<Maintenance>**
   - `Enter selection:` enter **4** to select **Tools**
   - `Enter selection:` enter **1** to select **Terminal**
   - A new terminal window appears. Enter **mt –f /dev/rmt/0lb rewind** in the terminal window.
     - ➢ If you get no response and just return to the prompt everything is ok.
     - ➢ If you get the response "`No tape loaded or drive offline`" everything is ok.
     - ➢ If you get the response "`No such device or address`" the DAT-tape drive is connected on the wrong SCSI connector on the rear of the Processing Station. Please shutdown the Processing Station and connect your DAT-tape drive according to the connection diagram in Appendix A of this document. Restart the Processing Station again and start again with point 1 of this section.

   If the DAT-tape drive is not connected to the correct SCSI port the backup and restore of the images will fail.

4) Save "Offline images" to DAT-tape. If they are not needed anymore skip this step. Time to save is approx. 25 minutes / 100 OFL images.
   - go to **<Maintenance>**
   - `Enter selection:` enter **3** to select **Repair**
   - `Enter selection:` enter **6** to select **ImportExport**
   - `Enter selection:` enter **4** to select **DirList.**
   - Insert an empty DAT-tape into the DAT-tape drive. Make sure that the write protection is off on the DAT-tape
   - `Enter selection:` enter **5** to select **Save.**
   - `Enter selection:` enter **q** to exit this menu**.**

5) Check and write down the current hostname, current ip-address and netmask of the Processing Station. This data will be needed during the software upgrade.
   - Go to **<Maintenance>**
   - `Enter selection:` enter **3** to select **Repair**
   - `Enter selection:` enter **4** to select **SystemInfo**
   - Move to the section "`Workstation Networking Environment`" in the system information. The following information should appear:

```
....
----- Workstation Networking Environment -----
Workstation        :  vips220       192.9.200.220
Broadcast          :  -             192.9.200.255
Netmask            :  -             255.255.255.127
....
```

- Write down the Hostname of the Processing Station (= Workstation) (in the above example "`vips220`"),
- Write down the IP address of the Processing Station (in the above example "`192.9.200.220`").
- Write down the Netmask of the Processing Station (in the above example "`255.255.255.127`"). This field maybe empty if no subnetting is done.
- `Enter selection:` enter **`q`** to exit this menu**.**

Note: Steps 6 - 15 are only required with version MIMOSA VIPS1.0.03. They are not needed if version MIMOSA VIPS1.0.05 is installed on your Processing Station.

6) Insert the "UPGRADE SUPPORT floppy"
7) Go to **`<Maintenance>`**
8) `Enter selection:` enter **`4`** to select **`Tools`**
9) `Enter selection:` enter **`7`** to select **`FloppyDir`** to mount the floppy
10) `Enter selection:` enter **`1`** to select **`Terminal`**
11) A new terminal window appears. Enter **`/floppy/floppy0/install.csh`**
12) `OK to continue:` enter **`yes`**
13) Enter **`eject floppy`** in the terminal window
14) Enter **`exit`** in the terminal window
15) `Enter selection:` enter **`q`** to exit this menu

2.2. Upgrade Procedure

1) Go to **`<Maintenance>`**
2) `Enter selection:` enter **`2`** to select **`Install`**
3) `Enter selection:` enter **`2`** to select **`Software`**
4) `Enter selection:` enter **`3`** to select **`Upgrade`**
5) If the question „`Remove all OFL-files`“ appears answer it with **`yes`**

Note: Step 6 can be skipped if the current images are not needed anymore after the upgrade.

6) Insert an empty DAT-tape into the DAT-tape drive and wait until the green LED on the DAT-tape drive stops flashing.
7) `Take a System backup on tape now [yes, no, skip, ?, q]:`
   - Enter "`yes`" if the current images are still needed after the upgrade. Saving images to DAT-tape can take very long (approx. 25min/100images).
   - Enter "`skip`" if the current images are not needed anymore after the upgrade.
8) `Ok to continue [yes, no, ?, q]:` enter **`yes`**

9) `SaveArea backup on floppy or tape [floppy, tape, ?, q]:` enter **`floppy`**

   Don't enter "`tape`" → Due to a software bug this crashes the upgrade procedure.

10) `Put floppy into drive and hit <return>:` hit **`<return>`**

11) `Ok to reboot from cdrom [yes, no, ?, q]:` enter **`yes`**

12) Insert the CD ROM with MIMOSA VIPS1.0.09 SW into CD ROM drive

13) `Mount bootable CDROM and hit <return>:` hit **`<return>`**

    Booting from CD ROM takes about 5 minutes

14) `Enter a selection:` enter **`1`** to select **`Install`**

15) `Enter a selection:` enter **`1`** to select **`Upgrade`**

16) If the floppy is still in the drive answer the question „`Use the floppy as JumpStart floppy [yes, no, ?, q]:`" with **`no`**.

17) `Install O.S. software from ./SYSTEM/SUN0506 [yes,no,?,q]:` enter **`yes`**
    The Solaris installation program starts now.

18) `"The Solaris Installation Program"` window appears. Click **`<Continue>`**

19) `"Identify This System"` window appears. Click **`<Continue>`**

20) `"Hostname"` window appears. Enter the old hostname and click **`<Continue>`**

21) `"Network Connectivity"` window appears. Click on **`<yes>`** and **`<Continue>`**

22) The following window appears only with ULTRA SPARC 1 hardware and if a fast ethernet board is installed.
    Here you can choose between hme0 **(**= 100mbit/10mbit auto sensing) or le0 (= 10 mbit onboard). We recommend to select hme0.

    `"Primary Network Interface"` window. Click on **`hme0`** and **`<continue>.`**

23) `"IP Address"` window appears. Enter the old ip_address and click **`<Continue>`**

24) `"Confirm information"` window appears. Check if the entries are correct and confirm by clicking **`<Continue>.`**

25) `"Subnet"` window appears. Click on **`<no>`** or if subnetting is used click on **`<yes>`** and then enter the old subnetmask. Click **`<Continue>.`**

26) `"Time Zone"` window appears. Click on **`<Geographic region>`** and **`<set>`**.

27) `"Geographic region"` window appears. Select **`<Local Region>`** and **`<Time zone>`** and click **`<Continue>.`**

28) `"Date and Time"` window appears. Modify **`<Date>`** and **`<Time>`** if not correct. Click **`<Continue>.`**

29) `"Confirm information"` window appears. Check if the entries are correct and confirm by clicking **`<Continue>.`**

    Successful system configuration is confirmed by the message "`System identification is completed.`"

    Now the Solaris operating system files are copied to the Processing Station. After about 15 minutes it will be rebooted automatically. After a few minutes the following message is displayed.

```
Please log on as root and enter:
/mimosa.install
```

30) `Hit <return> to continue.....` hit **`<return>`**

31) `vips220 console login:` enter **`root`**
32) `Password:` enter **`adcroot`**
33) Enter **`newfs –i 16384 –m 2% /dev/rdsk/c0t0d0s7`**
34) On the query `Construct a new file system /dev/rdsk/c0t0d0S7 (y/n)?` enter **`y`**
35) Enter **`/mimosa.install`**
36) `OK to run with option upgrade[yes, no, ?, q]:` enter **`yes`**
37) If you want to restore the old images insert the backup DAT-tape into the drive now (if not already in) and wait until the green light stops flashing.
38) `Restore directory /images from tape [yes, no, ?, q]:`
    - If you want to restore the old images enter **`yes`**
    - If you don't need the old images anymore enter **`no`**
39) `Install SW from ./MIMOSA/VIPS1009[yes, no, ?, q]:` enter **`yes`**

Note: Steps 40 and 41 appear only if under step 38 the old images from the backup DAT-tape have not been restored.

40) Insert the floppy with SaveArea backup.
41) `Choose a SaveArea [?, ??, q]:` enter **`2`** to select **`floppy`**.
    - Don't enter "`tape`" → Due to a software bug this crashes the upgrade procedure.

    Now the ORACLE database files, MIMOSA application files are copied to the Processing Station and the MIMOSA software is initialized with the old configuration data. This takes about 20 minutes.
42) `Ok to reboot:` enter **`yes`**
    The Processing Station reboots once again and starts up with the MIMOSA User Interface.
44) If the old images do not appear run a **`<Check System>`** via the controller button in the MIMOSA User Interface. It can take a while until the new images will show up.
45) Eject the DAT-tape and the floppy

2.3. Installation of the Language Files

With this upgrade the language files are not saved. Therefore they have to be reinstalled.

Installation procedure:

1) Go to **`<Maintenance>`**
2) Insert language disk
3) `Enter selection:` enter **`2`** to select **`Install`**
4) `Enter selection:` enter **`7`** to select **`Languages`**
5) `Enter selection:` enter **`1`** to select **`CopyLanguages.`**
   All Language files will be loaded.
6) `Enter selection:` enter **`4`** to select **`FloppyEject`** and remove the floppy.
7) Exit **`<Maintenance>`**
8) Reset the MIMOSA User Interface to get it in the language you had before the upgrade.

2.4. Finish Upgrade

To finish the upgrade, a customer specific backup has to be made on an empty floppy.

1) Go to **<Maintenance>**
2) Insert an empty floppy disk
3) `Enter selection:` enter **2** to select **Install**
4) `Enter selection:` enter **9** to select **Backup**
5) `Enter selection:` enter **1** to select **SiteSpecific**
6) `Save Area backup on floppy or tape [floppy,tape,?,q]:`enter **f** for `floppy`
7) After the backup is finished select **q** to quit.
8) Select **q** again
9) `Enter selection:` enter **4** to select **Tools**
10) `Enter selection:` enter **8** to select **EjectFloppy** and remove floppy from floppy drive
11) Select **q** to quit Tools menu
12) Exit **<Maintenance>**
13) Label floppy with backup with the following data and store it in a save place:

Site specific backup of <*hostname*>	
For Version:	VIPS1009
Name:	<*Your Name*>
Date:	<*Current date*>

3 Solved Problems from VIPS.1.0.05 to VIPS.1.0.09

- Autodelete problems are solved. The Processing Station gets no longer slow if many images are stored. Image partitions are no longer getting full. Hard disk space up to 27GB is supported now.
- Images with annotations can be zoomed and printed now.
- The date format is now set according to the language setting.
- Lists for selection are now sorted correctly, regardless of the case of the letters. Umlaute are fully integrated into the alphabetical order.
- The screen lock couldn't be disabled on some systems. It can be activated/deactivated now via the CCM configuration tool. To disable this function via CCM tool set the parameter "screensaver" to "off" and "time" to "0".
- The MIMOSA User Interface stability is increased significantly by increasing the maximum shared memory size and increasing the swap space by 50%.
- The system couldn't be booted after the message "`/usr-file system full`" had appeared. This happened when the machine switched to "Suspend Mode" and stored its current status in a file. Because this file was too big the system didn't boot again. To avoid this problem the "Suspense Mode" has been deactivated (e.g. CPR-package has been removed) now.
- A new way of drawing annotations has been introduced. To avoid blurred or dotted annotations on noisy background a black border is drawn around white annotations.
- A new modem initialization file for "MOTOROLA FAST 3265" modem has been introduced. The file is adapted to the latest state of the modem default settings.
- The "defaultrouter" can be changed via the MIMOSA configuration file "adc.cpf" by means of the CCM tool.
- After starting a new module in the Controller the user can start working right away now without waiting for the "Controller" button to return.
- Printing a test image now works. To print a test image go to "System Monitoring – Output – Test".
- Displaying an Infocounter does not result in an error anymore when reading a counter file that contains empty lines.
- DICOM Pixel Spacing contains "non square" values for rectangular cassette sizes. Proper rounding to three decimals is added to make sure that Siemens Magic View will support measurements on this image.
- The MIMOSA User Interface does not crash anymore when the space bar is pushed.
- It's no longer possible to enter the figure "0" when calibrating the measurement unit.
- If a grid is superimposed on the image you are forced to enter a grid distance as well.
- Image directories are no longer exported.
- A new icon for the different save to floppy functions is used. It shows a floppy with a pencil writing on it.
- It is possible now to view additional information in the "Service" mode of the MIMOSA User Interface. It is hidden, however, to all other users.
- In the Maintenance Menu the option "Tools→Message" has been corrected. It is now possible to send a message to the remote Processing Station via modem.

4 Solved Problems from DIPS1.0.03 to VIPS.1.0.09

If you upgrade from DIPS 1.0.03 to VIPS.1.0.09 the following problems have been solved in addition to the ones mentioned in point 3.

- The MIMOSA User Interface did not show all images. With the last SW version the file size of the images has been reduced, so it is possible to store more images on the hard disks. As the algorithm to calculate the maximum number of images still was based on the old image file size the number of maximum images which could be displayed in the MIMOSA User Interface was always too low. With this SW version the calculation works with the correct image file size.
- The MIMOSA User Interface Browser was not updated after long inactivity. When a user interface module is left alone for a long time without receiving any updates, it seems that it get starved by the Operating System. Now a “wakeup” signal is sent at least every 15 minutes.
- In the MIMOSA User Interface the <SEND> and <ARCHIVE> button have been removed if no destinations of this type have been configured.
- The MIMOSA User Interface crashed on zoom of some HR images (preferably 21cm x 43cm). This is solved now.
- Annotated thumbnail images are no more corrupted when annotation was applied.
- Annotated images are no more completely white if zoom has been applied on them.
- The MIMOSA User Interface crashed after the following sequence of actions:
  - Annotate an image
  - Undo the annotation
  - Collimate the image manually

  This is solved now.
- The annotation routine did not make the required conversion for inches. This is solved now.
- If the measurement calibration function of the annotation package is used without a value filled in, all subsequent measurements for that image were “0”. This is solved now.
- Black borders on thumbnails images now displayed when license is switched on.
- If in software option “ADCC Dose Monitoring SW” the user entered the dose value manually, the system sets <A> (means averaged over 50 images) in the status column instead <F> (fixed value). This is solved now.
- The true size layouts 11"x14"–2/0–Portrait and 14"x17"–2/0–Landscape , removed accidentally from list in VIPS1.0.03, are now available again.
- "Auto Reboot" of the Processing Station, done every Monday morning, is removed now.
- "Auto Reset of the UI" of the Processing Station, done every day, is removed now.
- The DICOM field “Performing Physician” replaces “Reading Physician”.
- Patient names and Patient first names, which contain more than one "space" in sequence, can be received by Processing Station without problems. Before images with such names have been refused by the Processing Station and consequently got stuck in the ADC Compact Digitizer output queue with “Error” status.
- If an image has been reprocessed on the Processing Station, the image gets now an altered Image_UID_number.
- Measuring on IMPAX Release 3.5 or higher is correct now. Image pixel spacing is sent correctly now (DICOM element 28,30). The parameter is now sent in pixel / mm instead of pixel / cm.
- Loading MIMOSA configuration file "adc.cpf" crashed when local menus were stored. This is solved now.

5 What's new in VIPS.1.0.09

- ADC Compact Auto QC Software is released now (= the Leeds phantom evaluation SW). This requires a license.
- ADC Compact Full leg/spine Software is released now. This requires a license. This option runs properly only with 192 MB or more.
- A new MIMOSA configuration file (adc.cpf file) is installed now in production. This configuration file provides a basic configuration for a complete ADC system and allows you start working without any configuration work.
- The Infocounters of the Processing Station have been expanded.
- Eject CD ROM and floppy from “Setup” in “System Module” possible now.
- ADB (AGFA DICOM Bridge) software is included now.

6 What's new from DIPS 1.0.03 to VIPS.1.0.09

If you upgrade from DIPS 1.0.03 to VIPS.1.0.09 the following functions are available in addition to the ones mentioned in point 5.

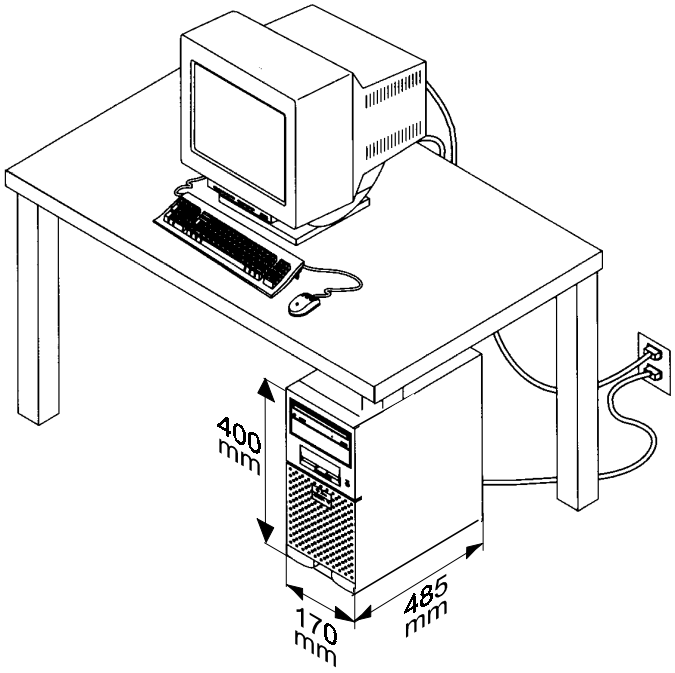
- A warning sign ( ) on the hardcopy identifies manual reprocessed images. The position of the sign on the film is in the text field in the upper left corner and in the image on the lower right corner.
- In the MIMOSA User Interface the symbol 1:1 has been added to the true size print button.
- In the MIMOSA User Interface the "Station name" on the top of the Browser has been added. This name is defined via the CCM-tool.
- In the MIMOSA User Interface in the “System Monitoring” module an "Info” button for the following Network information has been added: Station name, Hostname, IP address, DICOM AE_title and DICOM Port number.
- In the MIMOSA User Interface in the “System Monitoring” module under “Output” the function "Print test image" has been added.
- In the MIMOSA User Interface in the “System Monitoring” module input and output queue lists have been enlarged.
- In “Annotation” the font sizes have been increased.
- The “ADCC Link SW” (two images on one film) does no require a license number anymore. Therefore the “ADCC Link SW” is removed from the license manager and is a part of the basic software.
- Printing true size (= 1:1) of images on film is now fully supported on DRYSTAR, LR3300 and LR5200.
- Printing true size (= 1:1) of images coming from an10”x12” image plate works now also with a film 14" x 17" in portrait.
- The new UNIX operating system software SOLARIS 2.6 is included now on the MIMOSA CD. The AGFA internal version number for it is “Sun.A.0.5.06”. This operating system software is a necessity for the SUN Workstation model ULTRA 10 (PCI BUS based).
- Support for all sizes of SCSI disks, formatted in BSD format e.g. SUN HD
- Images in waste bin are deleted before an upgrade.

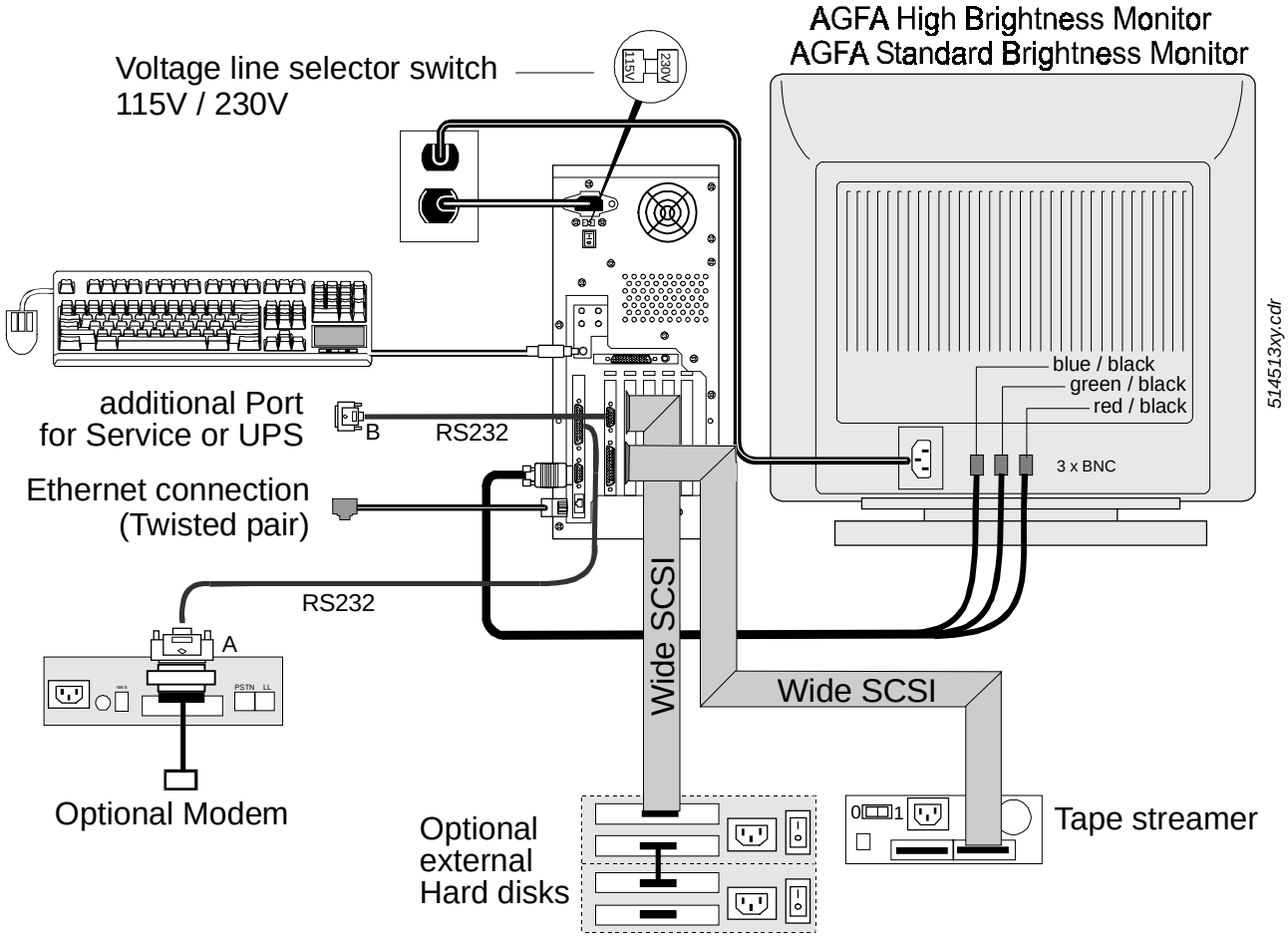
7 Known bugs not solved yet (VIPS.1.0.09)

- In some images there is a problem with the automatic collimation. A jagged black line is drawn diagonally over the image.
  Workaround: recollimate the image manually on the Processing Station.
- It happened once during testing that annotations were not printed on film.
  Workaround: reboot the Processing Station.
- Sometimes a UI reset is necessary to update the status flags "sent", "archived" and "printed". No workaround exists at the moment.
- When measurement calibration is used, an additional horizontal line appears below the calibration line in the thumbnail image. The line isn't visible in open mode or on a hardcopy. No workaround exists at the moment.
- The hard disk installation procedure of the Maintenance menu doesn't show the available SCSI-ID's. This problem appears only on SUN ULTRA SPARC 10 Processing Stations. No workaround exists at the moment.
- Number of free images in "System Module" displays always "0". No workaround exists at the moment.
- If transmission fails from the ADC Compact Digitizer to the Processing Station, it can take up to 15 minutes before a retry is done.
  Workaround: reset of ADC Compact Digitizer.
- With certain languages, an extra character ">" can appear in the date, e.g. "19.5.99>". This is a bug in Solaris OS. No workaround exists at the moment.
- After the appearance of the error message "Time-out loading image" the UI works very slow.
  Workaround: Run "Check System" and reboot the Processing Station.

Appendix A: Processing Station connection diagram

Please do not use the field service bulletin DD+DIS183.98E as it is wrong. Replace the corresponding page in that field service bulletin with this one.





Appendix B: ADC C APPLICATION NOTE

AGFA Agfa

ADC C APPLICATION NOTE

Subject: ***System Release ADC C (COP_1112, VIPS1009, PRID1107)***

Component name/Option:

Component	Release vers./ Status	Option	Released	Medium/Format	ABC
Autoprocessing SW	**VIPS1.0.09/ C**			Unix CD-ROM	37J5M
		Interactive processing SW	Yes		37J6O
		ADCC Autorouting sw	Yes		368K2
		ADCC Uro tomo software	Yes		368L4
		ADCC Pediatric software	No		37J7Q
		ADCC Dental software	No		37J8S
		ADCC Full leg/spine sw	Yes		37J9U
		ADCC smart Print sw*	No		
		ADCC Annotation software	Yes		368M6
		ADCC Black border sw	Yes		368OB
		ADCC Dose monitoring sw	Yes		368PD
		ADCC Auto QC software	Yes		368QF
		ADCC Dicom store connection	Yes		37KD5
		ADCC Softcopy toolkit	Yes		37KE7
		ADC PS5000 upgr to ADCC	No		37KFA
ID software	**PRID1.1.07/ C Java 1.1.7A**			Windows CD-ROM	37J2F
Preview software	**PRID1.1.07/ C Java 1.1.7A**			Windows CD-ROM	37J3H
		ADCC Rislink toolkit sw	Yes		368JZ
COMPACT Custom/Conf. Tool	**COP_1112/ C CCM1.1.02/C**			3x HD/DOS 4x HD/DOS	
Shipment.CPF	CPF.S.4.0.05/**C**			1x HD/DOS	

* ADCC “overview printing” and “slide printing” will be replaced by one Software package :ADCC “smart print”

Appendix B

1 Scope of the Document

This document describes the application related issues of the customer release of ADC C (COP_1112, recommended COP_1215, order Nr.: CM+9.5145.1050.2,
VIPS.1.0.09,
PRID 1.1.07).

2 General

- New user manuals are available for the ID Software (code 2201B), Rislink (code 2209C)and Basic System (code 2200B). These manuals are also available in pdf format. You can order additional copies of the manuals by sending an e-mail to Hugo Geyskens (tel 7255). If you order the new user manuals, you should use the code followed by the country code. e.g. 2201B D for Germany.
- Performance of the System:

  A processing Station (VIPS) can handle 140 images standard resolution. This means that 1 VIPS can handle 2 ADCC at full load under the following conditions:

  -The images must be standard resolution
  -Only “on-line hardcopy” output from the Processing Station

  It is possible to connect maximum 3 ADCC’s to one Processing Station (VIPS) reducing the workload on each digitizer accordingly.

3 New Options

- Full leg/Spine. (user manual code 2214A)
- Auto QC software. (user manual code 2217A)
- ADCC Test Phantom Set (will be available from juli on)
- Holder for Full leg/spine (will be available from september on)
- ADB (Agfa DICOM Bridge) This software is included on the VIPS1009 CD. You can use this software to create study folders when ADCC is connected to a PACS system.
- DICOM worklist is available on PRID with the restriction of a fixed AE_title.
- New license manager on PRID under system administrator. The user can switch on the license himself. Because the old license numbers do not work on this version, a license card for Identification station, Preview, Rislink and Autorouting is delivered with the upgrade.

4 General Functions which are not implemented or supported yet:

- Overview and slide option. Will be available in next release (end 1999) as **one** new Software package: **“Smart Print”**
- Switching on licenses by the customer on the VIPS. The customer has to enter the license number which is validated by the system. Will be available in next release (end 1999)
- Pediatric and Dental software . Will be available september 1999.
- PRID on Unix.

5 System Requirements:

- System disk should be at least 2 Gbyte.
- Minimum 128 Mbytes of RAM for DIPS and basic VIPS operations.
- Minimum 192 Mbytes of RAM for full leg/spine software.
- Maximum 27 Gbytes of total diskspace is supported.

6 Bug Fixes

See Modification Instructions MED CSO for a detailed list of solved problems.

The most important bug fixes are:

- VIPS system slows down when image disks are completely filled up with images. (this was a problem with the auto delete function)
- VIPS User Interface stability is significantly improved. Crashes are dramatically reduced.
- Annotation in Zoom is possible.
- New way of drawing Annotations. To avoid dotted annotations a black line is drawn around white annotations.
- Date format is set according to the language setting on the VIPS.
- Lists of selection are sorted without taking into acount CAPS.
- PRID slow writing information to the chip is solved.
- Caps Lock can be used on PRID.

7 Known Bugs:

- Collimation:sometimes a jagged Black line is drawn diagonally over the image (so called Zorro effect). This will be solved in next release.
- Annotation not printed on film. Work arround: reboot the VIPS.
- If an image transmission to a certain destination (HCP, SCP, IMPAX) fails, the “sent” flag is reset to “Not sent”. However a UI reset is required to update the status flag.
- Rislink:Fixed AE_title for DICOM worklist.
- PRID: when a window outside the “remove Cassette” box is clicked, the “remove cassette” message box gets hidden and the system seems to be blocked. Workaround: Remove cassette.
- Time zone should be set in the PRID application (not in windows). Will be solved in next release.